



Summary of CTEH's Air Monitoring Activities for the Community In Response to the MC 252 Oil Spill

Daily Summary for May 28, 2010

Air monitoring was conducted between New Iberia, LA and Apalachee Bay, FL to address public concern for crude oil vapors. The results of air monitoring for May 27, 2010 18:00 – May 28, 18:00 are shown in Tables 1 and 2 below and the locations where monitoring was conducted are shown in the map below (Figure 1).

Table 1 Summary of Air Monitoring In Residential and Commercial Areas Along the Gulf Coast

Crude Oil Chemicals of Interest	Number of Measurements	Average Concentration (ppm)	Maximum Concentration (ppm)
Volatile Organic Compounds including benzene (VOCs)	1002	0.011	3.2
Hydrogen sulfide	973	0	0
Sulfur dioxide	859	0	0
Benzene*	83	0	0
Total	2917		

*Benzene measured with detector tubes

Table 2

Particulates	Number of Measurements	Average Concentration (mg/m ³)	Maximum Concentration (mg/m ³)
Particulate Matter (PM2.5)*	904	0.040	0.175
Total	904		

*PM10 – is particulate matter less than 10 microns

*PM2.5 – is particulate matter less than 2.5 microns

Air monitoring results show that crude oil vapors were not detected throughout residential and commercial areas between New Iberia, LA and Apalachee Bay. On the morning of Friday, May 28th there were a total of six VOC detections in the Intracoastal City, Louisiana area that were determined to be not related to crude oil vapors.. At the time of the VOC detections, the exact source was not identified and no odor was observed. Elevated PM2.5 measurements were observed near the shoreline of Louisiana. These readings were attributed to nearby

Figure 1 Map Showing Where Air Monitoring is Being Conducted Throughout the Gulf Coast States



Figure 2 – Odor Investigation Results



Note – blue dot means no odor detected, orange dot indicates that crude oil odors were detected.